

IN THE CLAIMS

1. (currently amended) An information recording apparatus for executing a data recordation process, the information recording apparatus comprising:

a plurality of information recording means for recording data; and

a recordation control process executing section for executing a selection process to select one of the plurality of information recording means having greatest of available capacities of the information recording means, for executing a data recordation process to ~~at least~~ the selected one of the plurality of information recording means, and for executing a process of generating control information to be used during data reproduction, the control information including reproduction procedure information in which a procedure for reproducing data is stored and reproduction management information in which link information to the reproduction procedure information, video/audio section data file names, time information, and video/audio header information are stored,

wherein in the case of continuously executing a data recordation process to at least another of the plurality of information recording means, a plurality of pieces of reproduction procedure information are generated corresponding respectively to the plurality of information recording means, and link information to the plurality of pieces of reproduction procedure information is stored to one piece of the reproduction management information, ~~and~~

~~wherein~~ the recordation control process executing section is adapted to store continue information, representative of

whether recording a same content continuously to a next piece of reproduction procedure information, to storage domains corresponding to individual pieces of reproduction procedure information, and to store end information other than the continue information, representative of whether a piece of reproduction procedure information is a final piece of reproduction procedure information, in a data storage domain corresponding to an individual piece of reproduction procedure information, and

the recordation control process executing section is adapted to compare a remaining capacity of the information recording means under data recording with a preset threshold, and in response to the remaining capacity becoming less than the preset threshold, to execute continuously the data recordation process to another information recording means.

2. - 3. (cancelled)

4. (previously presented) An information recordation apparatus according to claim 1, wherein the recordation control process executing section is adapted to store, in each piece of the reproduction procedure information, management information on data continuously recorded on one of the plurality of information recording means, and information enabling a storage position of the data to be determined.

5. - 6. (cancelled)

7. (previously presented) An information recordation apparatus according to claim 1, wherein the recordation control process executing section is adapted to generate first reproduction procedure information when commencing a data recordation process to the information recording means, and store link information to the first reproduction procedure information to the reproduction

management information, and generate previously presented second reproduction procedure information in the case of executing continuing data recording to different information recording means, store link information to the second reproduction procedure information to the reproduction management information, and set continue information representative of having next reproduction procedure information to the first reproduction procedure information.

8. (currently amended) An information reproduction apparatus for executing a data recordation process and for executing a data reproducing process, the information reproduction apparatus comprising:

a plurality of information recording means for subject-of-reproducing data;

a recordation control process executing section for executing a selection process to select one of the plurality of information recording means having greatest of available capacities of the information recording means, for executing a data recordation process to ~~at least the selected~~ one of the plurality of information recording means, and for executing a process of generating control information to be used during data reproduction, for comparing a remaining capacity of the information recording means under data recording with a preset threshold, and in response to the remaining capacity becoming less than the preset threshold, for executing continuously the data recordation process to another information recording means; and

a reproduction control process executing section for executing a reproducing process of data continuously stored on

the information recording means, depending upon the control information;

the control information including reproduction procedure information in which a procedure for reproducing data is recorded and reproduction management information in which link information to the corresponding reproduction procedure information, video/audio section data file names, time information, and video/audio header information are stored,

wherein each of the plurality of information recording means stores management information about content recorded on at least one different recording means, and

in a case that there are a plurality of pieces of reproduction procedure information linked to the reproduction management information, the plurality of pieces of reproduction procedure information are switched in order and applied as control information, and reproduction-of-subject data is acquired from different information recording means based on an individual piece of reproduction procedure information, and

wherein the reproduction management information stores, in a data storage domain corresponding to each piece of reproduction procedure information, continue information representative of whether recording a same content continuously to next pieces of reproduction procedure information, and

the reproduction management information stores, in a data storage domain corresponding to an individual piece of reproduction procedure information, end information other than the continue information and representative of whether a piece

of reproduction procedure information is a final piece of reproduction procedure information.

9. (previously presented) An information reproduction apparatus according to claim 8, wherein the reproduction control process executing section is adapted to determine whether to continuously execute reproduction control depending upon the continue information in the reproduction management information for the piece of reproduction procedure information corresponding to the data under reproduction

10. (previously presented) An information reproduction apparatus according to claim 8, wherein the reproduction control process executing section is adapted to acquire, from the reproduction procedure information, management information on data continuously recorded on one of the plurality of information recording means and information enabling a storage position of the data to be determined.

11. (currently amended) An information recording method for an information recording apparatus having a plurality of information recording means for recording data, the information recording method comprising:

selecting an information recording means having greatest available capacity from the plurality of information recording means;

executing a data recordation process to the selected one of the plurality of information recording means;

comparing a remaining capacity of the information recording means under data recording with a preset threshold, and in response to the remaining capacity becoming less than the preset threshold, executing continuously the data recordation process to another information recording means;

generating reproduction procedure information in which a reproducing procedure is recorded as reproduction control information corresponding to recording data, and reproduction management information in which link information to the reproduction procedure information, video/audio section data file names, time information, and video/audio header information are stored,

wherein in the case of continuously executing a data recordation process to a plurality of information recording means, the generating step generates a plurality of pieces of reproduction procedure information corresponding respectively to the plurality of information recording means, and link information to the plurality of pieces of reproduction procedure information is stored to one piece of the reproduction management information, and

continue information, representative of whether recording a same content continuously to a next piece of reproduction procedure information, is stored to data storage domains corresponding to individual pieces of reproduction procedure information and end information other than the continue information, representative of whether a piece of the reproduction procedure information is a final piece of reproduction procedure information, is stored in a data storage domain corresponding to an individual piece of reproduction procedure information.

12. - 13. (cancelled)

14. (previously presented) An information recording method according to claim 11, further including storing, in each piece of the reproduction procedure information, management information on data continuously recorded on one of the plurality of information

recording means, and storing information enabling a storage position of the data to be determined.

15. - 16. (cancelled)

17. (previously presented) An information recording method according to claim 11, further including

generating first reproduction procedure information when commencing a data recordation process to the information recording means, and storing link information to the first reproduction procedure information to the reproduction management information, and

generating previously presented second reproduction procedure information in the case of executing continuing data recording to different information recording means, storing link information to the second reproduction procedure information to the reproduction management information, and setting continue information representative of a next piece of reproduction procedure information in a data storage domain corresponding to the first reproduction procedure information.

18. (currently amended) An information recording and reproducing method for an information reproducing apparatus having a plurality of information recording means for recording subject-of-reproducing data, the information recording and reproducing method comprising:

selecting an information recording means having greatest available capacity from the plurality of information recording means;

executing a data recordation process to the selected one of the plurality of information recording means;

comparing a remaining capacity of the information recording means under data recording with a preset threshold,

and in response to the remaining capacity becoming less than the preset threshold, executing continuously the data recordation process to another information recording means;

generating reproduction procedure information in which a reproducing procedure is recorded as reproduction control information corresponding to recording data;

acquiring, as the control information, the reproduction procedure information in which the procedure for reproducing data is recorded and reproduction management information in which link information to the corresponding reproduction procedure information, video/audio section data file names, time information, and video/audio header information are stored, wherein each of the plurality of information recording means stores management information about content recorded on at least one different information recording means; and

reproducing the data, wherein, in a case that there are a plurality of pieces of reproduction procedure information linked to the reproduction management information, the plurality of pieces of reproduction procedure information are switched in order and applied as the control information, and reproduction-of-subject data is acquired from different information recording means based on an individual piece of reproduction procedure information,

wherein the reproduction management information stores, in data storage domains corresponding to each piece of reproduction procedure information, continue information representative of whether recording a same content continuously to next pieces of reproduction procedure information, and

wherein the reproduction management information stores, in data storage domains corresponding to each piece of reproduction procedure information, end information other than the continue information and representative of whether a piece of reproduction procedure information is a final piece of reproduction procedure information.

19. (previously presented) An information recording and reproducing method according to claim 18, wherein the reproducing step includes determining whether to continuously execute reproduction control depending upon the continue information in the reproduction management information for the piece of reproduction procedure information corresponding to the data under reproduction.

20. (previously presented) An information recording and reproducing method according to claim 18, wherein the reproducing step includes acquiring, from the reproduction procedure information, management information on data continuously recorded on one of the plurality of information recording means and information enabling a storage position of the data to be determined.

21. - 22. (cancelled)

23. (previously presented) An information recordation apparatus according to claim 1, wherein the reproduction procedure information includes content management information.

24. (previously presented) An information recordation apparatus according to claim 23, wherein the content management information includes one or more of a stream file name, time information, video header information, audio header information, and meta data information.

25. (previously presented) An information recordation apparatus according to claim 24, wherein the meta data information

includes one or more of comprising link information to stream data, a packet ID, and copy control information.

26. (previously presented) An information reproduction apparatus according to claim 8, wherein the reproduction procedure information includes content management information.

27. (previously presented) An information reproduction apparatus according to claim 26, wherein the content management information includes one or more of a stream file name, time information, video header information, audio header information, and meta data information.

28. (previously presented) An information reproduction apparatus according to claim 27, wherein the meta data information includes one or more of comprising link information to stream data, a packet ID, and copy control information.

29. (previously presented) An information recording method according to claim 11, wherein the reproduction procedure information includes content management information.

30. (previously presented) An information recording method according to claim 29, wherein the content management information includes one or more of a stream file name, time information, video header information, audio header information, and meta data information.

31. (previously presented) An information recording method according to claim 30, wherein the meta data information includes one or more of comprising link information to stream data, a packet ID, and copy control information.

32. (previously presented) An information recording and reproducing method according to claim 18, wherein the reproduction procedure information includes content management information.

33. (previously presented) An information recording and reproducing method according to claim 32, wherein the content management information includes one or more of a stream file name, time information, video header information, audio header information, and meta data information.

34. (previously presented) An information recording and reproducing method according to claim 33, wherein the meta data information includes one or more of comprising link information to stream data, a packet ID, and copy control information.